

Technical Page

Proposal Type: Regular
 General Category: Astronomy
 Sub-Category: Spectroscopy
 Observation Category: Extragalactic
 Total Time Requested: 48 Hours

Proposal Title: A Satellite of the High Velocity Cloud W491

ABSTRACT:

Follow-up neutral hydrogen mapping of the High Velocity Cloud W491 and its satellite will be conducted. The satellite was discovered in the course of a study of the radial decline of the neutral hydrogen column density. It differs in velocity by 66 km/s from the main HVC; that difference exceeds the sum of the profile widths of the main and satellite features. The spatial extent of the satellite and deep integration on the outermost points of the main cloud, to determine whether the neutral hydrogen edge finally truncates or if the exponential decline continues or flattens out, are sought.

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Instrument Setup

L-narrow

Atmospheric Optical Instruments:

Special Equipment or setup: Exabyte tape to transport data back to Lafayette.

RFI Considerations

Frequency Ranges Planned

1419 - 1425